## WHAT IS CLAIMED IS:

- 1. A method of assembling a tire and a wheel rim, comprising the steps of:
- (1) determining a Radial Runout (RRO) value Wr1 (unit: mm) in a primary component of the RRO of the wheel rim, a phase θr1 (unit: °) of a peak position thereof, an unbalance level Wub (unit: g) of a heavy point in a weight unbalance of the wheel rim, a phase θub thereof (unit: °), a radial distance L (unit: mm) of a balance weight mounting position for correcting the weight unbalance from an axis center of the wheel rim, a weight Tt (unit: mm) of the tire, and a phase αt of a light point in the weight unbalance of the tire;
- (2) determining a phase  $\theta c$  of a correction unbalance Wc found by the following formula (1), by using the RRO value Wr1, the phase  $\theta r1$ , the unbalance level Wub, the phase  $\theta ub$ , the distance L, the weight Tt and the phase  $\alpha t$  determined in the preceding step; and

 $\theta c = Tan^{-1}[[Wub \times Sin \ \theta ub + \{(Wr1 \times Tt)/(2 \times L)\} \times Sin \ \theta r1]/[Wub \times Cos \ \theta ub + \{(Wr1 \times Tt)/(2 \times L)\} \times Cos \ \theta r1]] \dots (1)$ 

(3) assembling the tire and the wheel rim in a state of aligning the phase  $\theta c$  of the correction unbalance Wc with the phase  $\alpha t$  of the light point of the tire.